```
RESULT 1
    AAG80968
             AAG80968 standard; protein; 346 AA.
    ID
                                                                                Seguence Comparison
             AAG80968:
    XX
             28-AUG-2001 (first entry)
    ХX
             Human nGPCR11 #2.
    DE
             G protein-coupled receptor; nGPCR; seven transmembrane receptor; signal transduction; schizophrenia; thyroid disorder; renal failure; rheumatoid arthritis; CNS disorder; infection; metabolic disease; cardiovascular disease; proliferative disorder; hormonal disorder; neurological disorder; neuronal disorder; Alzheimer's disease; cancer;
    KW
    KW
              attention deficit-hyperactivity disorder/attention deficit disorder;
             Parkinson's disease; migraine; senile dementia; inflammatory disease; rheumatoid arthritis; autoimmune disorder; respiratory ailment;
    ĸw
             neuroprotective.
    os
XX
             Homo sapiens.
    PN
             WO200136473-A2:
    XX
    PD
             25-MAY-2001. /
    PF
             16-NOV-2000; 2000WO-US031581.
    XX
             16-NOV-1999;
                                         99US-0165838P
             17-NOV-1999;
    PR
                                         99US-0166071P.
             19-NOV-1999;
                                         99US-0166678P.
    PR
              28-DEC-1999;
                                         99US-0173396P.
    PR
             22-FEB-2000; 2000US-0184129P.
    PR
             28-FEB-2000; 2000US-0185421P.
    PR
              28-FEB-2000; 2000US-0185554P
             02-MAR-2000; 2000US-0186530P.
             03-MAR-2000; 2000US-0186811P.
    PR
              09-MAR-2000; 2000US-0188114P.
             17-MAR-2000; 2000US-0190310P.
21-MAR-2000; 2000US-0190800P.
    PR
    PR
              20-APR-2000; 2000US-0198568P.
    PR
             02-MAY-2000; 2000US-0201190P.
08-MAY-2000; 2000US-0203111P.
    PR
    PR
              25-MAY-2000; 2000US-0207094P
    XX
    PA
              (PHAA ) PHARMACIA & UPJOHN CO.
             Vogeli G, Wood LS, Parodi LA, Hiebsch RR, Lind P, Slightom J;
   PΙ
            Schellin KA, Kaytes PS, Bannigan CM, Ruff V, Sejlitz T, Huff RM;
   XX
            WPI; 2001-389826/41.
  DR
            N-PSDB; AAH51008
  XX
           New G protein-coupled receptor (nGPCR-x) and its encoding polynucleotide useful for diagnosing and treating e.g. schizophrenia.
   PT
  XX
           Claim 37; Page 89; 261pp; English.
         Claim 37; Page 89; 261pp; English.

The present invention relates to novel G protein-coupled receptors (nGPCRx; where x is 1, 3, 4, 5, 9, 11, 12, 14-18, 20, 21, 22, 24, 27, 28, 31-38, 40, 41, 53-60) and their coding sequences. The present sequence is one such G protein-coupled receptor. GPCRs are also known as seven transmembrane receptors and function in signal transduction. The nGPCRx coding sequences are useful for screening a human to diagnose a disorder affecting the brain or a genetic predisposition, specifically schizophrenia. nGPCRx are useful for identifying compounds useful for treating schizophrenia. Detection of nGPCRx in a sample is useful as a diagnostic tool for diseases or disorders, e.g. thyroid disorders, renal failure, rheumatoid arthritis, CNS disorders, infections such as HIV-1, metabolic and cardiovascular diseases, proliferative disorders and hormonal disorders. Modulators of nGPCRx activity have the utility for treating neurological disorders, including schizophrenia, ADHD/ADD (attention deficit-hyperactivity disorder/attention deficit disorder), and neuronal disorders such as Alzheimer's disease, Parkinson's disease, migraine and senile dementia. Additional disorders include inflammatory conditions (e.g. Crohn's disease), rheumatoid arthritis, autoimmune disorders, cancers, respiratory ailments such as asthma, and inflammatory diseases e.g. inflammatory bowel disease
  CC
  CC
CC
  CC
  ÇC
  CC
  90
          Sequence 346 AA;
     Query Match
Best Local Similarity
                                                 100.0%; Score 1853; DB 4; Length 346; 100.0%; Pred. No. 5.9e-199; tive 0; Mismatches 0; Indels 0
                     346; Conservative
                                                                                                                           0; Gaps
                                                                                                                                                  0;
 Qу
                       Db
                     Qу
Db
                   Qy
Db
                   Qy
Db
                         LYFLWTVPSSACDPSVHGALHITLSFTYMNSMLDPLVYYFSSPSFPKFYNKLKICSLKPK 300
Qy
Db
Qy
                         QPGHSKTQRPEEMPISNLGRRSCISVANSFQSQSDGQWDPHIVEWH 346
```

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RESULT 4
                                                                              Sequence Comparison
    ID
           AAU04373 standard; protein; 346 AA.
    XX
           AAU04373;
    DT
           23-OCT-2001 (first entry)
           Human G-protein coupled receptor, hRUP19.
    ХX
           Human; G-protein coupled receptor; GPCR; hRUP19; agonist;
inverse agonist; lung cancer.
    KW
   XX
   os
           Homo sapiens.
   PN
           WO200136471-A2.
   XX
           25-MAY-2001.
   XX
           16-NOV-2000; 2000WO-US031509.
   XX
           17-NOV-1999;
17-NOV-1999;
   PR
                                  99US-0166088P.
   PR
                                   99US-0166099P.
           17-NOV-1999;
                                  99US-0166369P.
                                  99US-0171900P.
           23-DEC-1999;
   PR
           23-DEC-1999;
                                  99US-0171901P.
          23-DEC-1999;
          23-DEC-1999; 99US-0171902P.
11-FEB-2000; 2000US-0181749P.
   PR
   PR
          14-MAR-2000;
                              2000US-0189258P.
          14-MAR-2000;
                              2000US-0189259P.
2000US-0195898P.
   PR
          10-APR-2000;
          10-APR-2000;
10-APR-2000;
   PR
                              2000US-0195899P.
                              2000US-0196078P.
2000US-0200419P.
  PR
          28-APR-2000;
  PR
          12-MAY-2000;
                              2000US-0203630P.
          12-JUN-2000; 2000US-0210741P.
12-JUN-2000; 2000US-0210982P.
  PR
  PR
          21-AUG-2000; 2000US-0226760P.
          26-SEP-2000; 2000US-0235418P.
26-SEP-2000; 2000US-0235779P.
20-OCT-2000; 2000US-0242332P.
  PR
  PR
         20-OCT-2000; 2000US-0242343P.
24-OCT-2000; 2000US-0243019P.
  PR
  PR
  хx
  PΑ
          (AREN-) ARENA PHARM INC.
  XX
  PI
         Chen R, Dang HT, Lowitz KP;
 XX
 DR
         WPI; 2001-355616/37.
N-PSDB; AAS07946.
 DR
 XX
         Endogenous and non-endogenous versions of human G-protein coupled receptors for direct identification of candidate compounds as agonists, inverse agonists or partial agonists for use as therapeutic agents.
 PT
 PT
 PT
 XX
 PS
         Claim 45; Page 110-111; 160pp; English.
 CC
        The sequence represents a human G-protein coupled receptor (GPCR), hRUP19. The endogenous and non-endogenous, constitutively activated versions of human G-protein coupled receptors (GPCR), are useful for direct identification of candidate compounds as receptor agonists, inverse agonists or partial agonists having applicability as therapeutic agents for treating diseases related to GPCR, e.g. lung cancer. Non-endogenous version of human GPCRs are also utilized in research settings and in vitro and in vivo system, incorporating GPCRs can be utilised to elucidate and understand the roles these receptors play in the human condition, both normal and diseased
 CC
 CC
 CC
 CC
ХX
        Sequence 346 AA;
   Query Match
                                         100.0%; Score 1853; DB 4; Length 346; 100.0%; Pred. No. 5.9e-199; ive 0; Mismatches 0; Indels 0
   Best Local Similarity
                          Conservative
                 346:
                                                                                                      0; Gaps
                                                                                                                        0;
                   Qу
Db
                 Qy
Db
Qу
                     HHAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCESFIMESANGWHDIM 180
                     HAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCESFIMESANGWHDIM
Db
Qy
                     FOLEFFMPLGIILFCSFKIVWSLRRRQQLARQARMKKATRFIMVVAIVFITCYLPSVSAR 240
Db
                     LYFLWTVPSSACDPSVHGALHITLSFTYMNSMLDPLVYYFSSPSPPKFYNKLKICSLKPK 300
Qy
                     QPGHSKTQRPEEMPISNLGRRSCISVANSFQSQSDGQWDPHIVEWH 346
```

```
RESULT 3
                   AAU06197
                            AAU06197 standard; protein; 346 AA.
                   ID
                                                                                                                  Séquence Companion,
                  AC
                            AAU06197;
                  XX
                  DT
                            19-DEC-2001 (first entry)
                           Novel human G protein-coupled receptor (GPCR) protein.
                 DE
                 ХX
                          Human; G-protein coupled receptor; GPCR; chemokine receptor; protease; hyperproliferative disorder; neurological disorder; psychiatric disease; inflammatory disorder; respiratory disorder.
                 KW
                 XX
                 OS
                ÞΝ
                           WO200173029-A2.
                XX
                PD
                          04-OCT-2001.
               ХX
                PF
                         27-MAR-2001; 2001WO-US009522.
               XΧ
                         27-MAR-2000; 2000US-0192419P.
06-SEP-2000; 2000US-0230459P.
               PR
               PR
                        20-SEP-2000; 2000US-00666535.
               ₽R
              PA
                        (PEKE ) PE CORP NY.
              XX
                       Ye J, Cravchik A, Di Francesco V, Beasley EM;
             XX
             DR
                       WPI; 2001-616503/71.
                       N-PSDB; AAS12581.
                      Novel human G-protein coupled receptor proteins and nucleic acid molecules encoding the protein for use in developing human therapeutics and diagnostic compositions and for identifying modulators of the
             PT
            PT
                      Claim 1; Fig 1; 66pp; English.
               The present invention relates to the isolation of a novel human G-protein coupled receptor (GPCR) which is related to the chemokine receptor subfamily. The cDNA and gene sequences encoding for GPCR are also given in the invention. The sequences of the invention are useful for diagnosing and treating diseases or conditions mediated by human proteases. Such diseases include hyperproliferative disorders (e.g. proteases. Such diseases include hyperproliferative disorders (e.g. psychiatric diseases), neurological disorders (e.g. parkinson's disease), diabetes) and respiratory disorders (e.g. parkinson's disease), syndrome, ARDS). The GPCR protein is also useful for identifying a for identifying agents for use in mammalian therapeutic displications, response in a cell or tissue that expresses the protein, in biological receptor subfamily, in drug screening assays related to GPCRs that are related to members of the chemokine assays. GPCR is also useful in diagnosing a disease mediated by the peptide, in pharmacogenomic analysis. The sequence represents the novel human GPCR of the invention Sequence 346 AA;
            XX
          CC
      CC
         Query Match
Best Local Similarity 100.0%; Score 1853; DB 4; Length 346;
Matches 346; Conservative 0; Mismatches 0; Indels 0
        Matches 346; Conservative
    Qy
                               MYNGSCCRIEGDTISQVMPPLLIVAFVLGALGNGVALCGFCFHMKTWKPSTVYLFNLAVA 60
    Db
                        Qy
   Dh
                     121 HHAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCESFIMESANGWHDIM 180
121 HHAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCESFIMESANGWHDIM 180
   Qу
  DЪ
                    Qу
 Db
                    Qv
Db
                   301 QPGHSKTQRPEEMPISNLGRRSCISVANSFQSQSDGQWDPHIVEWH 346
301 QPGHSKTQRPEEMPISNLGRRSCISVANSFQSQSDGQWDPHIVEWH 346
Qу
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Sequence Companson
RESULT 2
                       ABB44522 standard; protein; 346 AA.
ABB44522
                         28-JAN-2002 (first entry)
  XX
  DT
                          Human GPCR1a polypeptide SEQ ID NO 2.
                          Human; GCPR; G-coupled protein-receptor; cardiant; antiarteriosclerotic;
    DE
                            anabolic; cytostatic; antiviral; gene therapy; cardiomyopathy; obesity; anorexia; diabetes; osteoporosis; Crohn's disease; multiple sclerosis; asthma; Alzheimer's disease; Parkinson's disorder; Huntington's disease; infection; human immunodeficiency virus; HIV.
    KW
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        ĸW
                                                                                                                                                                                                                                                                                                                              THE MARKET HAR OF
                                                                                                                                                                                                                                                                                             อสามมาก สมสัตว์ก็เกรากรั้ง
          KW
                                                                                                                                                                                                                                                                   modulating cellular polypeptide expression or activity, useful as
                                 Homo sapiens.
          OS
                                                                                                                                                                                                                                                                     antagonists and agonists in disease treatment
                                 WO200174904-A2.
            PN
                                                                                                                                                                                                                                             XX
                                                                                                                                                                                                                                                                      Sequence 346 AA;
                                   11-OCT-2001.
                                                                                                                                                                                                                                                       Query Match 100.0%; Score 1853; DB 4; Best Local Similarity 100.0%; Pred. No. 5.9e-199; Matches 346; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 346;
            PD
                                   30-MAR-2001; 2001WO-US010241.
            XX
                          30-MAR-2001; 2001WO-US010241.

31-MAR-2000; 2000US-0193664P.
05-APR-2000; 2000US-0194614P.
06-APR-2000; 2000US-0195063P.
06-APR-2000; 2000US-0195066P.
06-APR-2000; 2000US-0195066P.
06-APR-2000; 2000US-0195068P.
06-APR-2000; 2000US-0195069P.
06-APR-2000; 2000US-0195070P.
21-JUL-2000; 2000US-0195070P.
21-JUL-2000; 2000US-021385P.
21-JUL-2000; 2000US-021385P.
11-AUG-2000; 2000US-022138P.
11-AUG-2000; 2000US-022458BP.
11-AUG-2001; 2000US-022458BP.
23-JAN-2001; 2001US-0263508P.
23-JAN-2001; 2001US-0263504P.
20-JAN-2001; 2001US-0263504P.
20-JAN-2001; 2001US-0263504P.
20-JAN-2001; 2001US-0265161P.
29-MAR-2001; 2001US-0265161P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                        1 MYNGSCCRIEGDTISQVMPPLLIVAFVLGALGNGVALCGFCFHMKTWKPSTVYLFNLAVA 60 1 MYNGSCCRIEGDTISQVMPPLLIVAFVLGALGNGVALCGFCFHMKTWKPSTVYLFNLAVA 60
              PR
               PR
                                                                                                                                                                                                                                                0ν
                                                                                                                                                                                                                                                рb
                                                                                                                                                                                                                                                                                                     61 DFLLMICLPFRTDYYLRRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYFKVVHP 120  
61 DFLLMICLPFRTDYYLRRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYFKVVHP 120
                PR
PR
                                                                                                                                                                                                                                                Qy
                                                                                                                                                                                                                                                 Dρ
                                                                                                                                                                                                                                                                                                                  HHAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCESFIMESANGWHDIM 180
                    PR
                                                                                                                                                                                                                                                  Qу
                    PR
                                                                                                                                                                                                                                                  Dh
                                                                                                                                                                                                                                                                                                                    FQLEFFMPLGIILFCSFKIVWSLRRRQQLARQARMKKATRFIMVVAIVFITCYLPSVSAR
                     PR
                                                                                                                                                                                                                                                   Qγ
                                                                                                                                                                                                                                                    рb
                                                                                                                                                                                                                                                                                                                    PR
                                                                                                                                                                                                                                                    Qy
                                                (CURA-) CURAGEN CORP.
                                                                                                                                                                                                                                                    DЬ
                                                                                                                                                                                                                                                                                                                    QPGHSKTQRPEEMPISNLGRRSCISVANSFQSQSDGQWDPHIVEWH 346
                                              Majumder K, Vernet CAM, Casman SJ, Padigaru M, Mishnu VS, Tchernev VT, Gusev VY;
                                                                                                                                                                                                                                                    Qу
                         PI
                                                                                                                                                                                                                                                    Db
                                                  WPI; 2001-639351/73.
N-PSDE; ABA81529, ABA81530.
                                                  New human G-protein coupled receptor X, GPCRX, polypeptide useful in treatment or prevention of GPCRX associated disorders e.g. cardiomyopathy or atherosclerosis, and to screen for antagonists and agonists useful
                             PT
                                                  Claim 1; Page 8; 157pp; English.

The invention relates to nucleic acid sequences (ABA81529-ABA81552) that encode G-coupled protein-receptor related polypeptides (ABB44522-page 144543). The isolated polypeptide having a sequence differing by no abb44543). The isolated polypeptide having a sequence differing by no (or mature forms of the sequences), fully defined in the specification (or mature forms of the sequences), fully defined in the specification and corresponding to human G-protein coupled receptor X (GPCRX) and corresponding to human G-protein coupled receptor X (GPCRX) and corresponding to human G-protein coupled receptor X (GPCRX) polypeptides. The polypeptides have potential cardiant, polypeptides can be administered therapeutically, especially using gene antiarteriosoclerotic, anabolic, cytostatic and antiviral activity. The polypeptides can be administered therapeutically, especially using gene antiarteriosoclerotic, anabolic, cytostatic and antiviral activity. The polypeptides can be administered therapeutically, especially using gene antiarteriosoclerotic disorders, especially in humans. For example, they can therapy and expressing the encoding DNA in vivo, to treat or prevent polypeptide, atherosoclerosis, disorders (e.g. disorders (e.g. alzheimer's obesity, anorexia), diabetes, osteoporosis, Crohn's disease, multiple related to signal processing and metabolic pathway modulation (e.g. alzheimer's oscierosis, asthma, cancers, neurodegenerative disorders (e.g. Alzheimer's sclerosis, asthma, cancers, neurodegenerative disorders (e.g. Alzheimer's sclerosis, asthma, cancers, neurodegenerative disorders (e.g. hlzheimer's disease, parkinson's disorder, Huntington's disease, immune disorders, haematopoietic disorders, developmental diseases, neurological disorders, haematopoietic disor
                             PT
PT
                                                     therapeutically.
                               2222222222222
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